

Professional and Managerial Branch  
Engineering Group  
Registered Engineering Series

TRAFFIC ENGINEER IV

12/00 (LBT)

### *Summary*

Under general direction, manage and independently execute difficult and complex traffic engineering programs.

### *Typical Duties*

Plan and direct development and evaluation of a regional transportation plan and in traffic engineering projects. Involves: designing or directing the drafting required in the preparation of plans; determining the materials required and preparing cost estimates; reviewing plans and recommending geometric design; checking horizontal and vertical curves for sight distance, radius, safety lighting and horizontal and vertical alignment of intersections and roadways; writing specifications for and purchasing traffic control equipment.

Confer with citizens and officials to resolve controversial complaints concerning traffic problems. Involves: preparing and delivering presentations to public hearings and groups; studying traffic conditions to detect unsafe and congested conditions; evaluating test data to determine appropriate methods of traffic control; locating and testing alternate traffic plans; computing traffic signal timing.

Direct or recommend improvements of traffic control systems. Involves: performing transportation planning, as required; assisting in the development of departmental operating and capital budgets; overseeing operation of the traffic management center and computer signal system; maintaining records and prepares reports.

Supervise technical, engineering and other support personnel as assigned. Involves: determining and preparing work schedules, and expediting work flow; assigning duties, issuing written and oral instructions and checking work for exactness, neatness, and conformance to policies and procedures; guiding subordinate in overcoming difficulties encountered in performing duties; evaluating performance, coaching, and arranging for or conducting training and development activities; enforcing personnel rules and regulations, standards of conduct, work attendance and safe working practices; maintaining supervisor-subordinate harmony and resolving grievances; making recommendations on personnel changes which includes interviewing applicants.

Perform related duties as required. Involves: substituting, if assigned, for immediate supervisor during temporary absences by performing delegated duties and responsibilities sufficient to maintain continuity of normal service and similarly performing any duties of subordinates or coworkers.

### *Minimum Qualifications*

Training and Experience: Graduation from an accredited college or university with a Bachelor's Degree in Civil, Electrical, Computer, Mechanical, Traffic Engineering or related engineering field and six (6) years of professional traffic engineering experience, including two (2) years as a Registered Professional Engineer and two (2) years in a supervisory capacity; or an equivalent combination of training and experience.

Knowledge, Abilities and Skills: Comprehensive knowledge of: the principles and practices of traffic engineering; traffic control equipment; tools, equipment, methods and techniques of traffic engineering; cost determination techniques; supervisory techniques, standards of conduct and work attendance; safe working practices and procedures; federal, state and local laws, codes and ordinances as they pertain to traffic control and engineering.

Ability to: prepare designs, plans and specifications for traffic engineering projects; determine project costs; interpret plans and identify defects; express oneself clearly and concisely, both orally and in writing; establish and maintain effective working relationships with fellow employees, officials and the general public by persuasively presenting information to respond to common inquiries and complaints of individuals or groups; firmly and impartially exercise delegated supervisory authority in the supervision and evaluation of subordinate personnel.

Skill in the safe operation and care of: personal computer or network work station, including computer-aided drafting and design (CADD), geographic information system (GIS), word processing, spreadsheets and database software; standard drafting instruments; time and distance measuring devices; motor vehicle through city traffic.

Physical Effort & Work Environment: Occasionally inspect field installations at construction sites which involves moving about uneven terrain, climbing, ladders, bending and stooping and exposure to other adverse field conditions.

Special Requirement: Respond to Public Works emergencies as necessary during non-working hours.

Licenses and Certificates: Valid Texas Professional Engineer License by time of application, or equivalent transferable from another state which must be converted to Texas Registration within one (1) year following appointment; valid Texas Class "C" Driver's license or equivalent issued by another state by time of appointment.

---

Director of Personnel

---

Department Head

OFFICIAL